Bruhath Bangalore Mahanagara Palike Dasarahalli Zone

Modified Estimate

Name of Work: Improvenents to CC Road at 13th,14th,15th Cross roads at Ravindra Nagar in Ward No.13 in Shettyhalli Sub-division

Est cost:- 40.00 lakhs

Sl No	Description of Items	Unit	No	L	B	D	Qty	Rate	Amount
1	Earthwork excavation by manual means in ordinary soil invoiving in average horizontal throw up to 2m & an average lift upto 1.5m , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification **(Page No.142, Iteam No.19.4 KPWD 2016-17)**								
	13th Cross b/w 4th Main and 3rd main		1	30.00	5.05	0.45	68.18		
			1	30.00	4.85	0.45	65.48		
			1	30.00	4.60	0.45	62.10		
			1	20.00	4.38	0.45	39.38		
	14th Cross from 4th Main to 3rd main		1	30.00	1.10	0.45	14.85		
			1	30.00	1.10	0.45	14.85		
			1	30.00	1.00	0.45	13.50		
			1	24.00	1.00	0.45	10.80		
	15th Cross from 4th Main to 3rd main		1	30.00	1.20	0.45	16.20		
			1	30.00	1.20	0.45	16.20		
			1	30.00	1.20	0.45	16.20		
			1	29.90	1.20	0.45	16.15		
	17th cross		1	30.00	1.00	1.00	30.00		
			1	30.00	1.00	1.00	30.00		
			1	30.00	1.00	1.00	30.00		
			1	30.00	1.00	1.00	30.00		
			1	11.00	1.00	1.00	11.00		
	17th cross		1	30.00	1.00	1.00	30.00		
			1	30.00	1.00	1.00	30.00		
			1	30.00	1.00	1.00	30.00		
	Sq.mt = 628.99 m³		1	30.00	1.00	1.00	30.00		
			1	11.00	1.00	1.00	11.00		
		Cum					**615.87**	**182.08**	**112137.79**
2	Construction Of granular sub -base by providing coarse graded cushed stone aggregates of granite / trap / basalt material speading in uniform layers with motor grader on prepared surface,mixing by mix in place method with rotavator at OMC,and compacting with vibratory roller to achive the desired density. complete asper specification. By mix in place method for Grading II Material **(Page No.156, Iteam No.20.6.2 KPWD 2016-17)**								
	13th Cross b/w 4th Main and 3rd main		1	30.00	5.05	0.15	22.73		
			1	30.00	4.85	0.15	21.83		

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			1	30.00	4.60	0.15	20.70		
			1	20.00	4.38	0.15	13.13		
	14th Cross from 4th Main to 3rd main		1	30.00	1.10	0.15	4.95		
			1	30.00	1.10	0.15	4.95		
			1	30.00	1.00	0.15	4.50		
			1	24.00	1.00	0.15	3.60		
	15th Cross from 4th Main to 3rd main		1	30.00	1.20	0.15	5.40		
			1	30.00	1.20	0.15	5.40		
			1	30.00	1.20	0.15	5.40		
	Sch.9 Item : 212.58 m³		1	29.90	1.20	0.15	5.38		
		Cum					**117.96**	**1637.65**	**193172.281**
3	Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.**(Page No.12, Iteam No.4.3 KPWD 2016-17)**								
	13th Cross b/w 4th Main and 3rd main		1	30.00	5.05	0.15	22.73		
			1	30.00	4.85	0.15	21.83		
			1	30.00	4.60	0.15	20.70		
			1	20.00	4.38	0.15	13.13		
	14th Cross from 4th Main to 3rd main		1	30.00	1.10	0.15	4.95		
			1	30.00	1.10	0.15	4.95		
			1	30.00	1.00	0.15	4.50		
			1	24.00	1.00	0.15	3.60		
	15th Cross from 4th Main to 3rd main		1	30.00	1.20	0.15	5.40		
			1	30.00	1.20	0.15	5.40		
			1	30.00	1.20	0.15	5.40		
			1	29.90	1.20	0.15	5.38		
	17th cross		1	30.00	0.90	0.15	4.05		
			1	30.00	0.90	0.15	4.05		
			1	30.00	0.90	0.15	4.05		
			1	30.00	0.90	0.15	4.05		
			1	11.00	0.90	0.15	1.49		
	17th cross		1	30.00	0.90	0.15	4.05		
			1	30.00	0.90	0.15	4.05		
			1	30.00	0.90	0.15	4.05		
			1	30.00	0.90	0.15	4.05		
	Sch.9 Item : 212.58 m³		1	11.00	0.90	0.15	1.49		
		Cum					**153.33**	**5338.55**	**818543.856**

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Extra 3/4

4	**Proveding and Laying plain reinforced cement concrete for side drains using m20 nominul mix concrete with OPC cement 300kgs. With 20mm and down size ganite metal course aggregates @0.69cum and fine aggregates @0.43cum machine mixed,well compacted for walls and bottom including centring,shuttring,cost of materails, HOM of machinaries. Complete Excluding cost of steel asper MORTH Specification no1500,1700,2200. Wall And Bottom thickness 15cm (Page No.265, Iteam No.37.59.2 KPWD 2016-17)**								
	17th cross		1	30.00	0.90	0.15	4.05		
			1	30.00	0.90	0.15	4.05		
			1	30.00	0.90	0.15	4.05		
			1	30.00	0.90	0.15	4.05		
			1	11.00	0.90	0.15	1.49		
	17th cross		1	30.00	0.90	0.15	4.05		
			1	30.00	0.90	0.15	4.05		
			1	30.00	0.90	0.15	4.05		
			1	30.00	0.90	0.15	4.05		
			1	11.00	0.90	0.15	1.49		
	17th cross		2	30.00	0.15	0.59	5.31		
			2	30.00	0.15	0.60	5.40		
			2	30.00	0.15	0.61	5.49		
			2	30.00	0.15	0.60	5.40		
			2	11.00	0.15	0.60	1.98		
	17th cross		2	30.00	0.15	0.60	5.40		
			2	30.00	0.15	0.59	5.31		
			2	30.00	0.15	0.60	5.40		
			2	30.00	0.15	0.61	5.49		
			2	11.00	0.15	0.60	1.98		
		Cum					82.53	11416.40	942195.4
	Basic Rate	**10408.00**							
	Area Weightage 6%	**624.48**							
	Sub Total	**11032.48**							
	Add T.P 3.47%	**382.83**							
	Total	**11416.40**							
4	Cement concrete pavement. Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 with 25mm and down size graded granite metal coarse aggregates and fine aggregtes, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing) & spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, including curing, finishing to lines and grades as per drawing complete as per specifications.M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) **(Page No.177, Iteam No.22.6.1 KPWD 2016-17)**								

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	13th Cross b/w 4th Main and 3rd main	Cum	1	30.00	5.05	0.15	22.73		
			1	30.00	4.85	0.15	21.83		
			1	30.00	4.60	0.15	20.70		
			1	20.00	4.38	0.15	13.13		
	14th Cross from 4th Main to 3rd main		1	30.00	3.80	0.15	17.10		
			1	30.00	3.90	0.15	17.55		
			1	30.00	3.65	0.15	16.43		
			1	24.00	4.15	0.15	14.94		
	15th Cross from 4th Main to 3rd main		1	30.00	3.50	0.15	15.75		
			1	30.00	3.55	0.15	15.98		
			1	30.00	3.85	0.15	17.33		
	Sch. Qty = 359.55		1	29.90	3.50	0.15	15.70		
		Cum					**209.14**	**6434.35**	**1345663.87**
6	Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. **(Page No.17, Iteam No.4.46.2 KPWD 2016-17)** Extra Qty								
		Tonnes		**82.53**	**x**	**60Kgs**	**4.95**	**66479.10**	**329191.207**
	Basic Rate	60607.00							
	Area Weightage 6%	3636.42							
	Sub Total	64243.42							
	Add T.P 3.47%	2229.25							
	Total	66479.10							
7	Providing Groove Cutting for wudth of 5mm to 10mm and depth of 80mm - 100mm including cost of cutting machine, Genaretor and HOM of Machinary including cost of bleed coolent **(Page No.178, Iteam No.22.8.1, KPWD 2016-17)**								
			5	5.00			25.00		
			6	4.60			27.60		
			5	4.00			20.00		
			7	3.80			26.60		
			5	3.80			19.00		
			3	3.20			9.60		
	Sch. Qty = 251.00 Rmt		4	3.50			14.00		
		Rmt					**141.80**	**126.14**	**17886.65**
8	Providing & laying reinforeced cement precast slabs of mix CC 1:11/2:3 using 20mm & down size graded Granite metal using HYSD 10mm dia steel @ 100mm c/c both ways & Complete as per specfications. Extra Qty								
	17th cross		1	30.00	0.90		27.00		
			1	32.00	0.90		28.80		
	17th cross		1	30.00	0.90		27.00		

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			1	24.00	0.90		21.60		
		Sqm					104.40	1757.09	183440.196
									57768.65
9	Miscellaneous and unforseen Charges								
								Total	4000000.00

(Rupees Fourty Lakhs Only)

Certificate:-

1. The work spot was inspected and work is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike Limits.
3. The rates adopted based on the PWD SR Bangalore Circle for year 2016-17
4. The provisions made in the estimate are necessary and essential.

Asst Engineer
Ward No-13
BBMP

Asst Executive Engineer
Shettyhalli Sub-Division
BBMP

Executive Engineer
Dasarahalli Zone
BBMP

ನಂ.BBMP/CE/DZ/TS/10/18-19 ದಿನಾಂಕ : 16/01/2019
ರೂ.Rs. 39.35 lakhs only (Rs. Thirty nine lakhs Thirty five thousands only)
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ

ತಾಂತ್ರಿಕ ಸಹಾಯಕರು

ಮುಖ್ಯ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ.
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

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